ASBESTOS IDENTIFICATION SURVEY 3005 PACKARD ROAD ANN ARBOR, MICHIGAN

for

DOWNRIVER COMMUNITY CONFERENCE
BROWNFIELD CONSORTIUM
15100 NORTHLINE ROAD
SOUTHGATE, MICHIGAN

AKT PEERLESS PROJECT No. 6588F-3-194 JULY 2, 2010



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FOR

DOWNRIVER COMMUNITY CONFERENCE BROWNFIELD CONSORTIUM SOUTHGATE, MICHIGAN

AKT PEERLESS PROJECT NO. 6588F-3-194

1.0 <u>INTRODUCTION</u>

Downriver Community Conference Brownfield Consortium (DCCBC) retained AKT Peerless Environmental & Energy Services (AKT Peerless) to conduct an asbestos survey for the building located at 3005 Packard Road in Ann Arbor, Michigan. AKT Peerless' scope of work is based on its proposal PF-10897 dated May 12, 2010, and the terms and conditions of the agreement. The building was previously used as a gas station/ party store.

1.1 PURPOSE

The purpose of AKT Peerless' asbestos survey is to: (1) identify and locate suspect Asbestos Containing Materials (ACM), (2) establish a sampling plan, based on homogeneous and functional areas, to sample and assess significant sources of friable and non-friable suspect ACM, (3) quantify the amount of asbestos ACM identified at the property, (4) conduct a physical assessment of friable and non-friable suspect asbestos containing building materials (ACBM), and (5) prepare a final report documenting ACM and Presumed Asbestos Containing Materials (PACM) quantities, locations, and results.

All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following U.S. Environmental Protection Agency (USEPA) Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook. In an effort to minimize costs, AKT Peerless used first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample, within each homogeneous area grouping, until a sample was determined to be asbestos containing.

1.2 LIMITATIONS AND EXCEPTIONS OF THE SURVEY

Locating and identifying building materials that contain asbestos is a difficult and time-consuming task. All buildings have hidden spaces that may not be immediately obvious to a surveyor who is not intimately familiar with the building and who has only a limited time in the building. Complicating this task is the fact that asbestos was used in a variety of building



components and in many types of materials in the construction of buildings. In some of these materials, asbestos is present, not as an intentional ingredient, but as a contaminant.

Although AKT Peerless uses trained and licensed inspectors in attempting to locate and identify building materials that contain asbestos, AKT Peerless cannot verify that all ACMs have been identified. It is possible that there are materials or building components that were not found because they were not visible or accessible to the inspection team or for various other reasons were not sampled.

Quantities of identified ACM reported in this document are estimates for reference only and should not be relied upon for abatement bidding purposes. AKT Peerless strongly cautions against utilizing the reported material quantities without field verification. It is expected that contractors will utilize their own quantities when preparing bid pricing. Further, it should be anticipated that there will be other costs associated with the asbestos abatement including engineering and testing fees.

AKT Peerless encountered building-specific limitations during the Asbestos Survey. Areas enclosed by fixed wall systems were restricted to limited visual access. Fixed wall systems include plaster walls with an underlying building structure. These systems are installed in the interior areas of the buildings. As part of the survey, only limited inspection of the internal wall cavities was possible.

2.0 <u>ASBESTOS SURVEY</u>

On June 17, 2010, Mr. Donald Malusi of AKT Peerless conducted asbestos materials assessment and survey activities associated with the building located at 3005 Packard Road in Ann Arbor, Michigan. During the asbestos survey, AKT Peerless noted observable materials (e.g., materials that are readily accessible and visible without dismantling permanent structures, such as walls, floors and ceilings) that may contain asbestos.

3.0 ASBESTOS SURVEY PROCEDURES

The following sections outline the approach, procedures, and methods employed by AKT Peerless to complete the Asbestos Survey of the on-site buildings.

3.1 DESCRIPTION OF HOMOGENEOUS AREAS

During the asbestos survey, AKT Peerless identified Homogeneous Areas based on appearances and type of materials observed. As defined under Asbestos Hazard Emergency Response Act (AHERA), a homogeneous area is an area that appears similar throughout in terms of its color, texture, and date of material application.

In addition, building materials suspect for asbestos content are also described based on one of three material classifications that include:

<u>Surfacing Materials:</u> A material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members,



or other materials on surfaces for acoustical, fireproofing, or other purposes.

<u>Thermal System Insulation:</u> A material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

<u>Miscellaneous Materials</u>: A building material on structural components, structural members, or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

During the preparation of this survey, eight (8) homogeneous areas were identified. A description of these materials is provided in the Homogeneous Area Summary Table located in Appendix A.

3.2 DESCRIPTION OF FUNCTIONAL SPACES

AKT Peerless identified six (6) Functional Spaces in the building. In general, functional spaces are defined as spatially distinct units or areas within a building, which contain identifiable populations of building occupants. These spaces can include office areas, storage spaces, services areas, etc. However, a functional space can also be delineated based on general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey.

The functional spaces are depicted on the floor plan layout included in Figures 1. Functional spaces are also listed in Appendix A.

3.3 BULK SAMPLE MATERIAL INVENTORY

Based on the inspection, 8 homogeneous materials were identified during the survey. AKT Peerless collected a total of 17 bulk samples for laboratory analysis.

Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (1) extracting a sample with a clean knife, chisel, or coring tool and (2) placing the sample into its properly labeled sample container.

The sampling protocol used to procure the appropriate number of samples for an identified homogeneous area of suspect ACM is based on sampling guidelines outlined under AHERA and is detailed as follows:

3.3.1 Surfacing Materials

Surfacing materials consist of building materials that have been sprayed-on, troweled-on, or otherwise applied to building surfaces for acoustical, fireproofing, or other purposes. Sample locations selected were evenly distributed and representative of the entire survey area. If fewer than nine samples are collected, a random sampling scheme was used to determine the sample locations.

3.3.2 Thermal System Insulation

For thermal system insulation, the number of samples and the sample locations was dependent on



local circumstances. However, a minimum of three samples of each homogeneous sampling area was collected. For long pipe runs and for piping runs that extend into additional functional areas, additional samples were collected as appropriate at the discretion of the accredited inspector. For pipe runs or patched areas of less than 6-linear feet (e.g., where facility repair or re-insulation activities may have occurred), at least one sample was collected. In addition, areas of pipe insulating cement were sampled based on the discretion of the accredited asbestos inspector.

3.3.3 <u>Miscellaneous Materials</u>

Miscellaneous materials consist of interior and exterior building components and are typically located on structural components, structural members, or fixtures, such as floor and ceiling tiles and roofing materials. Sampling of these materials was by delineation of homogeneous areas and functional spaces. Based on the quantities of the materials identified, samples of the suspect materials were collected by the accredited asbestos inspector in a manner sufficient to determine its asbestos content.

Confirmed and assumed ACMs identified quantities, are presented in the Bulk Sample Material Inventory table included in Appendix A.

3.4 LABORATORY ANALYTICAL PROCEDURES

All samples collected were submitted to and analyzed by Apex Research of Whittmore Lake, Michigan. Apex Research is accredited by the American Industrial Hygiene Association (AIHA) and participates in the NVLAP. Chain-of-custody guidelines were followed to ensure proper handling and delivery of the samples. The samples were analyzed using PLM with dispersion staining in accordance with the following USEPA guidance document titled: Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, and dated July, 1993.

The USEPA defines ACM as those materials that contain greater than one percent asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure. The National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos, dated November 1990 stipulates that any friable material identified as containing asbestos in concentrations greater than one percent must be considered ACM.

Percentages and types of fibrous components in these samples were determined by visual estimation of the amount of fibrous materials versus the total amount of material present. The Occupational Safety and Health Administration's (OSHA) definition of ACM is any material containing more than one percent asbestos. Materials containing one percent or less of asbestos are considered non-asbestos containing.

AKT Peerless utilized the "positive-stop" method of sample analysis. In this method, analysis is stopped on a group of samples once the first positive (e.g., greater than one percent asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos containing, the entire material must be considered asbestos containing.

Based on appearances and type of materials, suspect ACMs were grouped into homogeneous areas and functional spaces as appropriate. Upon completion of these activities, representative



bulk samples of the suspect materials were collected. For example, ceiling tile located in different functional spaces found to be uniform in texture and color and appeared similar in every other respect. This material was considered one homogenous area and was sampled accordingly.

Based on the homogeneous and functional areas identified during the survey, AKT Peerless collected a total of 17 bulk samples for analysis. Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (1) extracting a sample with a clean knife or chisel and (2) placing the sample into its properly labeled sample container.

Copies of laboratory datasheets for the bulk suspect ACMs are provided in Appendix B.

4.0 <u>CONCLUSIONS AND RECOMMENDATIONS</u>

AKT Peerless was retained to conduct an Asbestos Survey of the building located at 3005 Packard Road in Ann Arbor, Michigan. The purpose of the survey was to identify the location of ACMs that will require special handling procedures or removal activities before the conduct of general building renovation, repairs, or demolition activities. The following sections of this report summarize the findings of the Asbestos Survey.

4.1 ASBESTOS CONTAINING MATERIALS

Based on the results of the asbestos survey, AKT Peerless identified the following ACMs:

30	005 Packard Road		
8 Homogene	ous Areas & 6 Functiona	al Spaces	
Description of ACM	ACM Location and Functional Space (Refer to Figure 1)	HA No.	Approximate Quantity
Roofing Material	FS-6 Exterior	8	Not Estimated

Based on the findings of the site review and sampling, AKT Peerless recommends the following:

1. HA-8 Roofing Material is considered non-friable. This material was assumed ACM. Additional testing could be performed to determine if the material is ACM. Non-friable roofing materials do not require removal when subject to standard demolition procedures.

5.0 <u>LIMITATIONS</u>

The information and opinions obtained in this report are for the exclusive use of DCCBC. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in



conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and DCCBC.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by DCCBC, or third parties is complete or accurate.

Report prepared by:

Donald L. Malusi Jr.

Environmental Consultant

AKT Peerless Environmental & Energy Services

MIOSHA CSHD Asbestos Inspector Accreditation No. A14322

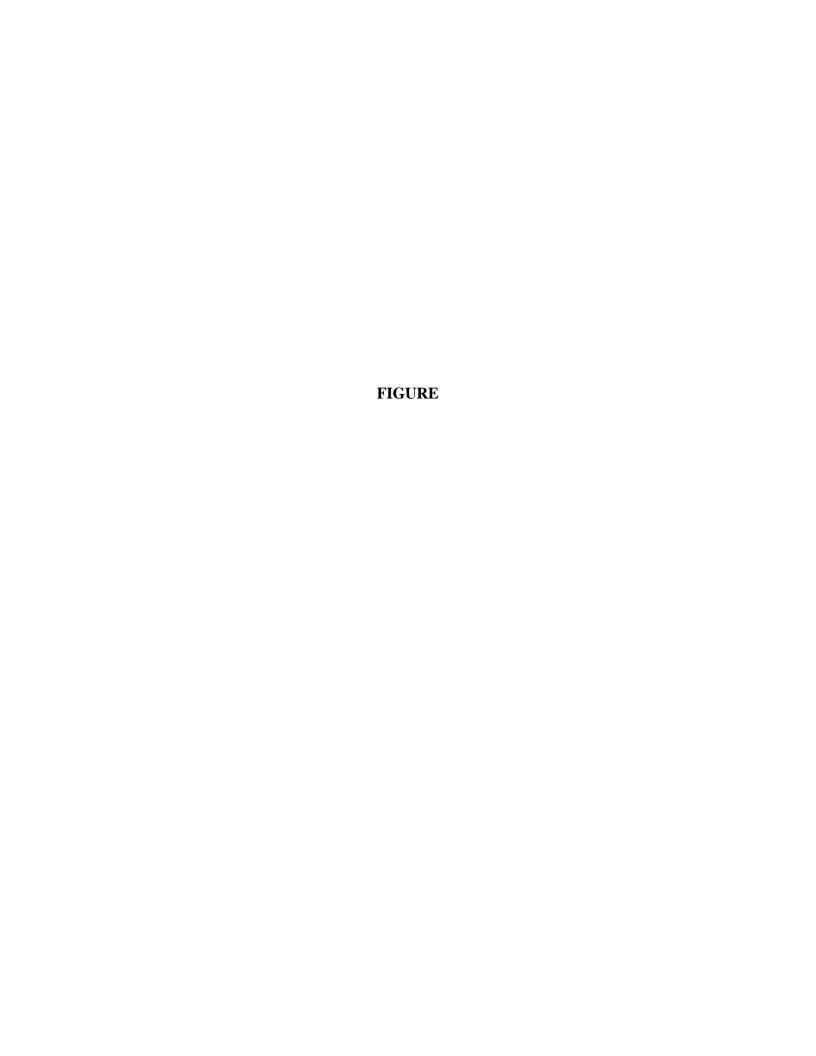
Report reviewed by:

ames C. Fox, RPIH

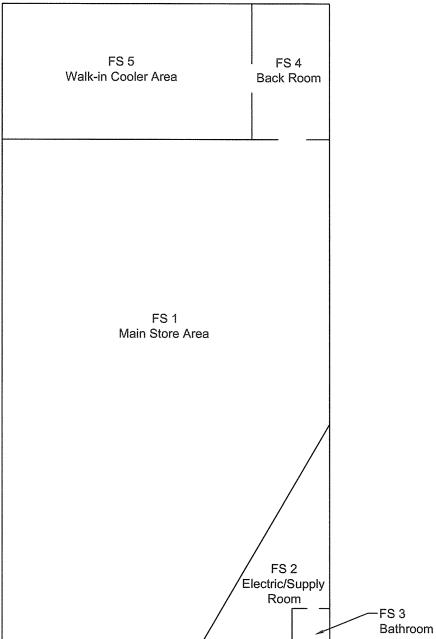
Senior Project Manager

AKT Peerless Environmental & Energy Services

MIOSHA CSHD Asbestos Inspector Accreditation No. A3152







FS 6 - Exterior

Scale is approximate, room locations area generalized



FUNCTIONAL SPACE MAP

3005 PACKARD ROAD ANN ARBOR, MICHIGAN PROJECT NUMBER : 6588F-3-194

DRAWN BY:	OGO
DATE:	06-28-10
0 5	10
SCALE: 1"	= 10'±0
FIGUR	

APPENDIX A ASBESTOS DATA TABLES BULK SAMPLE MATERIAL INVENTORY HOMOGENEOUS AREAS FUNCTIONAL SPACE LISTING



BULK SAMPLE MATERIAL INVENTORY

CLIENT: DCCBC PROJECT NO: 6588f-3-194

PROJECT NAME: 3005 Packard Road, Ann Arbor, MI

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
	2' x 4' White Ceiling Tile with	1-01	NAD	FS-1 Main Store Area			
1	Pinholes and small grooves	1-02	NAD	FS-1 Main Store Area	760 SF	NF	Good
	I fillioles and small grooves	1-03	NAD	FS-1 Main Store Area			
		2-01	NAD	FS-1 Main Store Area			
2	Drywall Tape and Mud	2-02	NAD	FS-1 Main Store Area	NE	NF	Good
		2-03	NAD	FS-1 Main Store Area			
		3-01	NAD	FS-2 Electric/ Supply Room			
3	Gray 12" x 12" Floor Tile with streaks	3-02	NAD	FS-2 Electric/ Supply Room	90 SF	NF	Good
	Strouts	3-03	NAD	FS-2 Electric/ Supply Room			
	D 4011 4011 FI FILL 11	4-01	NAD	FS-2 Electric/ Supply Room			
4	Brown 12" x 12" Floor Tile with streaks	4-02	NAD	FS-2 Electric/ Supply Room	20 SF	NF	Good
		4-03	NAD	FS-2 Electric/ Supply Room			
	12" x 12" Brown self ashesive	5-01	NAD	FS-3 Bathroom			
5	floor tile	5-02	NAD	FS-3 Bathroom	45 SF	NF	Good
	noor the	5-03	NAD	FS-3 Bathroom			
6	Orange/ Yellow Foam Insulation	6-01	NAD	FS-2 Electric/ Supply Room	NE	NF	Good



BULK SAMPLE MATERIAL INVENTORY

CLIENT: DCCBC
PROJECT NO: 6588f-3-194

PROJECT NAME: 3005 Packard Road, Ann Arbor, MI

HA No.	Material Description	Sample Number	Asbestos Content	Sample Location	Approx. Quantity (SF)	Friability	Condition
7	Black Pipe Insulation	7-01	NAD	FS-5 Walk-In Cooler Area	20 LF	NF	Damaged
8	Roofing Material		Assumed ACM		NE	NF	Good

Notes

FS = Functional Space NAD = No Asbestos Detected

 $SF = Square \ Feet \ N/A = Not \ analyzed \ Bold = Indicates \ sample \ contains \ as bestos \ NE= \ Not \ Estimated$



HOMOGENEOUS AREA SUMMARY

CLIENT: DCCBC **PROJECT NO:** 6588f-3-194

PROJECT NAME: 3005 Packard Road, Ann Arbor, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity	(SF)(LF)	Friability	Condition
1	2' x 4' White Ceiling Tile with Pinholes and small grooves	FS-1 Main Store Area	MM	760	SF	NF	Good
2	Drywall Tape and Mud	Throughout Building	MM	NE		NF	Good
3	Gray 12" x 12" Floor Tile with streaks	FS-2 Electric/ Supply Room	MM	90	SF	NF	Good
4	Brown 12" x 12" Floor Tile with streaks	FS-2 Electric/ Supply Room	MM	20	SF	NF	Good
5	12" x 12" Brown self ashesive floor tile	FS-3 Bathroom	MM	45	SF	NF	Good
6	Orange/ Yellow Foam Insulation	FS-2 Electric/ Supply Room	MM	NE		NF	Good
7	Black Pipe Insulation	FS-5 Walk-In Cooler Area	MM	20	LF	NF	Damaged
8	Roofing Material	FS-6 Exterior	MM	NE		NF	Good

BOLD = Material is **ACM**



FUNCTIONAL SPACE LISTING

CLIENT: DCCBC
PROJECT NO: 6588f-3-194

PROJECT NAME: 3005 Packard Road, Ann Arbor, MI

Functional Space No.	Description
1	Main Store Area
2	Electrical/ Supply Room
3	Bathroom
4	Back Room
5	Walk-In Cooler Area
6	Exterior

APPENDIX B

LABORATORY DATA SHEETS





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi AKT Peerless 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10

10-31463

Date Collected: 06/17/10 Date Received: 06/17/10

Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 31463 - 01

Cust. #: 1-1

Material: 2'x4' White Ceiling Tile

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Cellulose - 30%

Mineral Wool - 30%

Perlite - 20%

Other - 20%

Lab ID #: 31463 - 02

Cust. #: 1-2

Material: 2'x4' White Ceiling Tile

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Cellulose - 30%

Mineral Wool - 30%

Perlite - 20%

Other - 20%

Lab ID #: 31463 - 03

Cust. #: 1-3

Material: 2'x4' White Ceiling Tile

Location:

Appearance: beige, fibrous, homogenous

Layer: 1 of 1

Asbestos Present: NO

os i iesciii.

Cellulose - 30%

No Asbestos Observed

Mineral Wool - 30%

Perlite - 20%

Other - 20%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

NVLAP Lab Code 102118-0





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi **AKT Peerless** 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10-31463

Date Collected: 06/17/10 Date Received: 06/17/10 Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 31463 - 04

Cust. #: 2-1

Material: Drywall Tape

Location:

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

No Asbestos Observed

Cellulose - 60%

Lab ID #: 31463 - 04a

Cust. #: 2-1 Material: Mud

Location:

Appearance: white, nonfibrous, homogenous

Layer: 2 of 2

Lab ID #: 31463 - 05

Cust. #: 2-2

Material: Drywall Tape

Location:

Appearance: white, fibrous, homogenous

Layer: 1 of 2

Asbestos Present: NO

Fiberglass - 20%

Other - 20%

Asbestos Present: **NO**

No Asbestos Observed

Other - 100%

Asbestos Present: NO

No Asbestos Observed

Cellulose - 60% Fiberglass - 20%

Other - 20%

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi **AKT Peerless** 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10-31463

Date Collected: 06/17/10 Date Received: 06/17/10 Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Lab ID #: 31463 - 05a

Cust. #: 2-2 Material: Mud Location:

Appearance: white, nonfibrous, homogenous

Layer: 2 of 2

Asbestos Present: NO No Asbestos Observed

Asbestos Present: **NO**

Cellulose - 70%

Cust. #: 2-3

Lab ID #: 31463 - 06

Material: Drywall Tape

Location:

Appearance: brown, fibrous, homogenous

Layer: 1 of 2

No Asbestos Observed

Fiberglass - 10% Other - 20%

Other - 100%

Lab ID #: 31463 - 06a

Cust. #: 2-3

Material: Mud

Location:

Appearance: white, nonfibrous, homogenous

Layer: 2 of 2

Asbestos Present: NO No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi **AKT Peerless** 214 Janes Avenue Saginaw, MI 48607 ARI Report #

10-31463

Date Collected: 06/17/10

Date Received: 06/17/10 Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Asbestos Present: NO

No Asbestos Observed

Non-Asbestos

Other - 100%

Lab ID #: 31463 - 07

Cust. #: 3-1

Material: Grey 12"x12" w/Streaks

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 08

No Asbestos Observed

Asbestos Present: NO

No Asbestos Observed

Asbestos Present: **NO** Other - 100%

Cust. #: 3-2

Material: Grey 12"x12" w/Streaks

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 09

Cust. #: 3-3

Material: Grey 12"x12" w/Streaks

Location:

Appearance: beige,nonfibrous,homogenous

For Layered Samples, each component will be analyzed and reported separately

Layer: 1 of 1

Robert T. Letarte Jr., Laboratory Director

Other - 100%





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi **AKT Peerless** 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10-31463

Date Collected: 06/17/10 Date Received: 06/17/10

Date Analyzed: 06/22/10 Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Other - 100%

Other - 100%

Lab ID #: 31463 - 10

Cust. #: 4-1

Material: Brown 12"x12" w/Specks

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 11

Cust. #: 4-2

Material: Brown 12"x12" w/Specks

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 12

Cust. #: 4-3

Material: Brown 12"x12" w/Specks

Location:

Appearance: beige,nonfibrous,homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: NO No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director





Project: 3005 Packard Road Project # 6588f-3-194

Report To:

Mr. Don Malusi **AKT Peerless** 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10-31463

Date Collected: 06/17/10 Date Received: 06/17/10 Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Other - 100%

Other - 100%

Other - 100%

Lab ID #: 31463 - 13

Cust. #: 5-1

Material: 12"x12" Brown Floor Tile

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 14

Cust. #: 5-2

Material: 12"x12" Brown Floor Tile

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 15

Cust. #: 5-3

Material: 12"x12" Brown Floor Tile

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Asbestos Present: NO

No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Asbestos Present: NO

No Asbestos Observed

For Layered Samples, each component will be analyzed and reported separately

Robert T. Letarte Jr., Laboratory Director





Project: 3005 Packard Road Project # 6588f-3-194

Report To: Mr. Don Malusi AKT Peerless 214 Janes Avenue Saginaw, MI 48607 ARI Report # 10-31463

Date Collected: 06/17/10

Date Received: 06/17/10

Date Analyzed: 06/22/10

Date Reported: 06/22/10

Sample Information

Asbestos Type/Percent

Non-Asbestos

Lab ID #: 31463 - 16

Asbestos Present: **NO**No Asbestos Observed

Asbestos Present: **NO**

No Asbestos Observed

Other - 100%

Other - 100%

Cust. #: 6-1

Material: Orange/Yellow Foam Ins.

Location:

Location:

Appearance: orange,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 31463 - 17

Cust. #: 7-1

Material: Black Pipe Insulation

Location:

Appearance: black,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #:

Asbestos Present:

Cust. #:

Material: Location: Appearance:

Layer:

of

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.

\(\text{NVLAP Lab Code 102118-0}\)

31463

PEX Research, Inc

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991. Web Site: http://apexresearch-inc.com. Email: apexresearch@charterinternet.com

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			le Ceiling Tile	My bxc]-[1-83/18
Results	Area	Volume	Material/Location	Materia	Client ID#	Lab ID
IIOther	EPA Level II	AHERA	Bulk/NOP	TEM:	First Positive	Stort
OtherViable	BioSIS		Bulk Tape _	Mold:	TTP	Other:
int Soil	r Paint	Air	Bulk Wipe _	Trice Lead:	72 hour Best	48 hour
PCM	Point Count		Bulk X Wipe	-5 Days Asbestos:	24 hour (3-5	Rush
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Date: 6

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Date:

Received By:

Relinquished By: MBNOE/PS
Date: 417 110 11-24

Relinquished By:
Date: APEX RESEARCH

Relinquished By: A

Revision Date: December/2006

APEX Research,

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991. Web Site: http://apexresearch-inc.com. Email: apexresearch@charterinternet.com

APEX

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Results	Area	Volume	Material/Location	Materi	Client ID#	Lab ID
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ntSoil	Paint	Air	Bulk Wipe	Lead:	72 hour 13 PJ	48 hour
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Revision Date: December/2006

Date:

Date: 6/17/10 11:24 Relinquished By: MB161122

Date:

APEX RESEARCH

Relinquished By: Dea Date: 6-17-13

APPENDIX C

HAZ-MAT INVENTORY TABLE



Client: Downriver Community Conference Brownfield Consortium

Site Address: 3005 Packard Road, Ann Arbor, MI

AKT Project No.: 6588f-3-194 **Survey Dates:** June 17, 2010

Bldg. Level	Func. Space No.	Functional Space Name	Classification	Material Type	Amount	Description/ Comments
L1	1	Main Store Area	CFC	refrigerator	1	
L1	1	Main Store Area	CFC	cooler	4	Pop Coolers
L1	1	Main Store Area	CFC	soda fountain	1	
L1	1	Main Store Area	CFC	deep freezer	2	
L1	1	Main Store Area	LMP	fluorescent bulbs	98	
L1	1	Main Store Area	PCB	light ballast	49	Potential PCB Ballasts
L1	1	Main Store Area	FEX	dry chemical	2	
L1	1	Main Store Area	MMT	unknowns	1	safe
L1	1	Main Store Area	CRT	video monitor	1	13"
L1	1	Main Store Area	BATT	security system	1	
L1	1	Main Store Area	MMT	non-flammables	64 Ounces	(1) 64-Ounce Joint Compound
L1	1	Main Store Area	LMP	neon	1	(1) Neon Skoals Sign
L1	1	Main Store Area	LMP	neon	1	(1) Neon Alligator Ice Sign

Inspector: DLM Page 1 of 15



Client: Downriver Community Conference Brownfield Consortium

Site Address: 3005 Packard Road, Ann Arbor, MI

AKT Project No.: 6588f-3-194 **Survey Dates:** June 17, 2010

Bldg. Level	Func. Space No.	Functional Space Name	Classification	Material Type	Amount	Description/ Comments
L1	1	Main Store Area	LMP	neon	24	(24) Blue Neon Lights on Outline of Windows
L1	2	Electric/ Supply Room	MMT	non-flammables	1 Gallon	(1) 1-gallon container of Sun Orange Cleaner
L1	2	Electric/ Supply Room	MMT	corrosives	1 Gallon	(1) 1-gallon container of Quatsan
L1	2	Electric/ Supply Room	MMT	non-flammables	1 Gallon	(1) 1-gallon container of Pine Sol
L1	2	Electric/ Supply Room	MMT	non-flammables	32 Ounces	(1) 32-Ounce Carpet Cleaner
L1	2	Electric/ Supply Room	MMT	corrosives	32 Ounces	(1) 32 ounce container of Drain Cleaner
L1	2	Electric/ Supply Room	POZ	pesticides	1 gallon	(1) 1-gallon container of Roundup Plant Killer
L1	2	Electric/ Supply Room	MMT	non-flammables	3 gallons	(3) 1-gallon containers of paint
L1	2	Electric/ Supply Room	MMT	corrosives	12 Ounce	(1) 12-ounce tube of caulk
L1	2	Electric/ Supply Room	MMT	unknowns	20 Ounces	(1) 20 ounce container of unknown liquids
L1	2	Electric/ Supply Room	LMP	fluorescent bulbs	6	
L1	2	Electric/ Supply Room	PCB	light ballast	3	Potential PCB Ballasts
L1	3	Bathroom	LMP	fluorescent bulbs	2	

Inspector: DLM Page 2 of 15



Client: Downriver Community Conference Brownfield Consortium

Site Address: 3005 Packard Road, Ann Arbor, MI

AKT Project No.: 6588f-3-194 **Survey Dates:** June 17, 2010

Bldg. Level	Func. Space No.	Functional Space Name	Classification	Material Type	Amount	Description/ Comments
L1	3	Bathroom	PCB	light ballast	1	Potential PCB Ballasts
L1	4	Back Room	LMP	fluorescent bulbs	2	
L1	4	Back Room	РСВ	light ballast	1	Potential PCB Ballasts
L1	4	Back Room	CFC	cooler	1	Lifewater Cooler
L1	5	Walk-in Cooler Area	LMP	fluorescent bulbs	4	
L1	5	Walk-in Cooler Area	РСВ	light ballast	2	Potential PCB Ballasts
L1	5	Walk-in Cooler Area	CFC	cooler	1	Large Walk-in Cooler
Exterior	6	Exterior	LMP	mercury vapor	21	
Exterior	6	Exterior	TIRE	auto	2	Spare Tires
Exterior	6	Exterior	POZ	pesticides	10 Pounds	(1) 10 Pound Bag of Scotts Weed Killer

Inspector: DLM Page 3 of 15



Client: Downriver Community Conference Brownfield Consortium

Site Address: 3005 Packard Road, Ann Arbor, MI

AKT Project No.: 6588f-3-194 **Survey Dates:** June 17, 2010

Bldg. Level	Func. Space No.	Functional Space Name	Classification	Material Type	Amount	Description/ Comments
Exterior	6	Exterior	TNK	underground tank	4	

Notes:

1. AST=aboveground tank, BATT=battery (vehicle size), CFC= chlorofluorescent tubeescent tubeocarbon-containing equipment, CRT=cathode ray tube, CYL=compressed gas cylinder, ELEC=electronics, EXIT=non-radioactive exit sign, FEX= fire extinguisher/system, LMP=mercury lamp, MMT=misc. liquid waste material, OFM=oil-filled machinery, PCB=potential PCB waste, POZ=poison (pesticide), RAD=radioactive device.

Inspector: DLM Page 4 of 15

Notes:

old damaged refrigeration compressors were observed but it was assumed that all

- 1. BAT= emergency lead battery, ELB=emergency light, EXIT=exit sign, LIT=lamp and/or k
- 2. No attempt was made to distinguish types of emergency lights. Some contain exit signal
- 3. No attempt was made to distinguish between AC and DC powered exit signs or those wi
- 4. Fluorescent light bulbs are standard 4ft length unless otherwise noted
- 1. BATT=battery (vehicle size), CFC= chlorofluorocarbon-containing equipment, DRM= electrical equipment (excludes conventional oil-filled non-PCB transformers)

I refrigerant has already been removed or released pallast, MRC=liquid mercury device, RAD=radioactive device

ge, some contain mercury/halide lamps and most or all contain emergency batteries.

ith radium or fluorescent paint.

drum, OFM=oil-filled machinery, POZ=poison (pesticide), TRN=oil-filled transformer or other

named hdr range

AST_optio

"combo_primary"

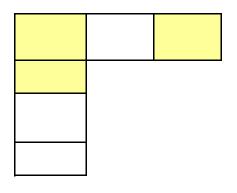
"combo_abbr" spaces!

abovegro und_tank	battery	biohazard	CFC device	cathode ray tube
AST	BATT	ВІО	CFC	CRT
20 asl			Air Drugs	
20-gal 50-gal	auto	bird droppings	Air Dryer central air-conditioner	television
110-gal	dry cells	black mold	chiller	video monitor
180-gal	emerg. light	animal droppings	condenser	
220-gal	exit sign		cylinder	
330-gal tote			cooler	
440-gal	emerg. light/ exit sign		deep freezer	
500-gal	fire suppr. system		dehumidifier	
1000-gal.	forklift		drinking fountain	
1500-gal.	security system		refrigerator	
2000-gal.	misc. system panels		roof-top air-conditioner	
	UPS			
			soda fountain	

v	wallside unit ventilator
v	window air-conditioner

Primary menus BACK TO DATA TABLE

				fire		lead		
compressed				extinguish	fluid fille	compone		misc.
gas cylinder	drum	electronics	exit signs	er	d piping	nt	lamp	chemical
gas cylliaci	druiii	Cicctionics	CAIL SIGIIS	CI	a piping		ιαπρ	CHCHICAL
CYL	DRUM	ELEC	EXIT	FEX	FFP	LBP	LMP	MMT
		Amplifier						
						gun		
compressed					lab drain	ammunitio		
gas cyl-L	30-gal	circuitboard	batt only	CO2	trap	n	fluor	flammables
								hazardous
compressed	101		fl	h alau	lab sink	flaabiaa	h alaman	(non-
gas cyl-M	40-gal	computer	fluor only	halon	trap	flashing lead core	halogen	flammable)
compressed		major			floor drain	shield		
gas cyl-S	55-gal.	appliance	comb	halogen	and trap	door	halogen	herbicides
gas cyr c	oo gai.	аррнанос	undifferentiat		ana trap	industrial	naiogen	misc
freon charge		microwave	ed	system		paint	Na-vapor	automotive
3 2 2 3 3				- ,				
		switch/fuse						non-
propane		panel	unknown	unid.		wall shield	neon	flammables
		misc.						
		salvage		dry				
scuba tanks		electronics		chemical		X-ray vest	unid.	bottom ash
		transformer				Raw Lead	051	
		(dry)				Bar	CFL	corrosives
		Electrical					mercury	
		Panel					vapor	unknowns
		i anoi					vapoi	dilitiowile
							fluorescen	
							t bulbs	
	_				<u> </u>			



used -1930s :1979

used -1930s+

mercury device	medical waste	oil-filled product	PCB product	poison	radioactive device	tank	rubber tire
MRC	MWP	OFM	PCB	POZ	RAD	TNK	TIRE
switches			capacitors				
ampule thermostat	misc biomedical	hydraulic actuator	carbon paper	pesticides	radium-faced exit sign	septic tank	auto
barometer/ manometer	rx meds	pad transform er	light ballast	rat traps	radium-faced clock	underground tank	auto- cemented
chest freezer	medical sharps	elevator cable drive	lubricant		smoke detector		bike
equipment	medical -				tritium-faced		
switch	other	capacitor	pool paint		exit sign		truck
gas-stove		compress or	specialty inks				
pool heater		door actuator	specialty paint				
space heater		oil filters	transform er				
sump pump		pole transform er	well pump				
washer		trash compactor	electrical panel				
		grease trap					
		Oil containing machinery					
		elevator hydraulic oil	PCB trade names:				

equipment hydraulic leveler Aroclor,

push lawn

mower snow

blower

Secondary menus

vehicle	
VEH	
auto	
forklift	
TOTALL	
truck	

Fluor		Unid
., .		
exit sign 1-bulb		
fixture		recessed
1-ft 1-bulb		fixture
. It i baib		intaio
2-bulb		
fixture		exit sign
2ft-2-bulb		
fixture		
3-bulb		
fixture		
3ft-2-bulb		
fixture		
4' U-		
shaped		
bulb		

4-bulb fixture 4ft. 8-bulb fixture

8-ft 1-bulb

8-ft 2-bulb

	area_group	bldg_wing		Level	Functional_space
	Area Group	Bldg Wing	F.S. No.	<u>Level</u>	Functional Space
1					
2	St. John	N/C		Sub-Bmt.	Admin. Office
3	Triumph	W		Bmt.	Admin. Storage
4	Veteran's	CS		В	Arts and Crafts
5		Е		L1	Attic
6		NO		L2	Balcony
7		NW		L1/ L2	Basement
8		NC		L3	Bathroom
		NE		L4	Bedroom
		SR		L5	Bedroom 1
		CEN		L6	Bedroom 2
		S/W		Pent.	Bedroom 3
				Pent.1	Boiler Room
				Pent.2	Cafeteria
				Roof	ceiling-unit
				L1 Mezz.	Central Hall
				Ext. L2	Closet
				Attic L1	Closet-walk in
				Attic L2	Coat closet
				Attic L3	Common Halls
					Community Room
					Community Room Table Closet
					Computer Room
					Deck (above drop ceiling)
					Dining Room
					Electrical Room
					Exterior
					Fan Room
					Floor Level
					Foundation
					Foyer
					Hall
					Inside walls
					Janitorial
					Kitchen
					Kitchen/ Bathroom
					Lab
					Laundry
					Library

	Living Room
	Living Room/ Bedroom
	Lounge
	Mail Room
	Maintenance
	Manager's Office
	Master Bedroom
	Mechanical
	Media center
	Men's
	Nurse
	Package Storage
	Receiving
	Restroom
	stairwell down
	stairwell up
	Storage closet
	Study
	Trash Room
	unid. storage/ closet
	unit
	unit (exc. bath)
	Utility
	Women's
	Greenhouse
	Rear Yard
	Fertilizer Storage
<u> </u>	North end
<u> </u>	South end
	East end
<u> </u>	West end
	Center
	Center
I	